University at Albany

Department of Atmospheric & Environmental Sciences

Atmospheric Science Research Center

Graduate Program Overview

Kristen Corbosiero
Graduate Program Director

DAES and ASRC

- **84 graduate students cross three Master's and PhD programs:**

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  ~ Research based: Atmospheric Science
  Climate Science

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    Climate Science
  - **~ Internship based: Applied Master's**

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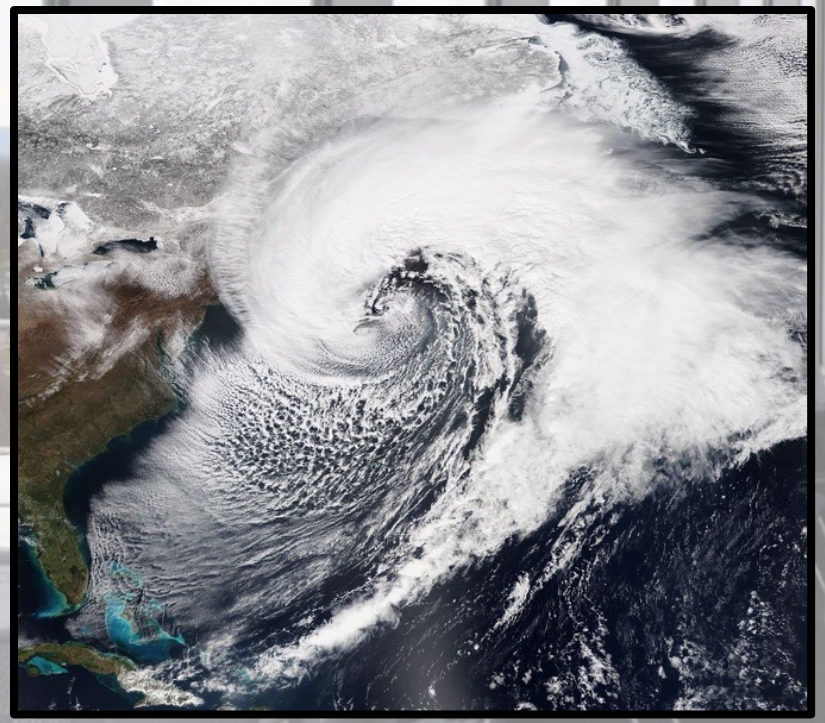
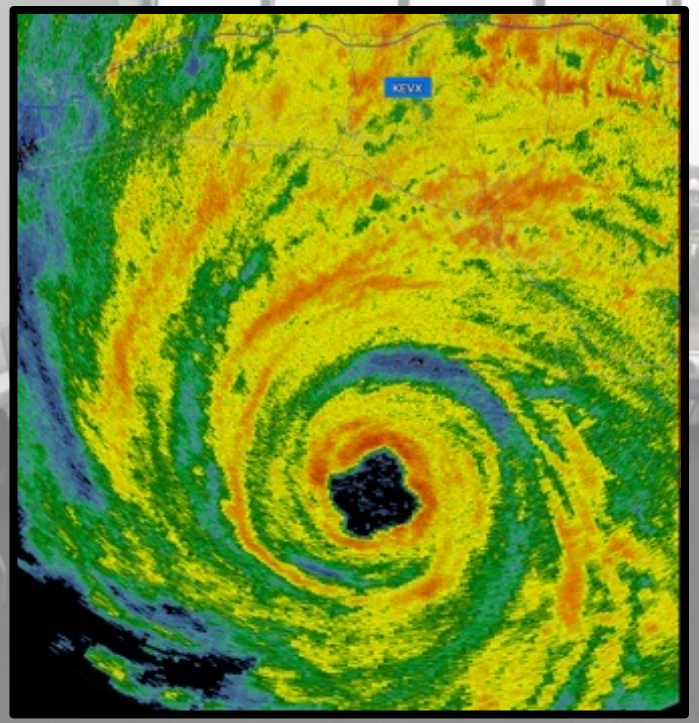
  - **~ Research based: Atmospheric Science**
    Climate Science
  - **~ Internship based: Applied Master's**

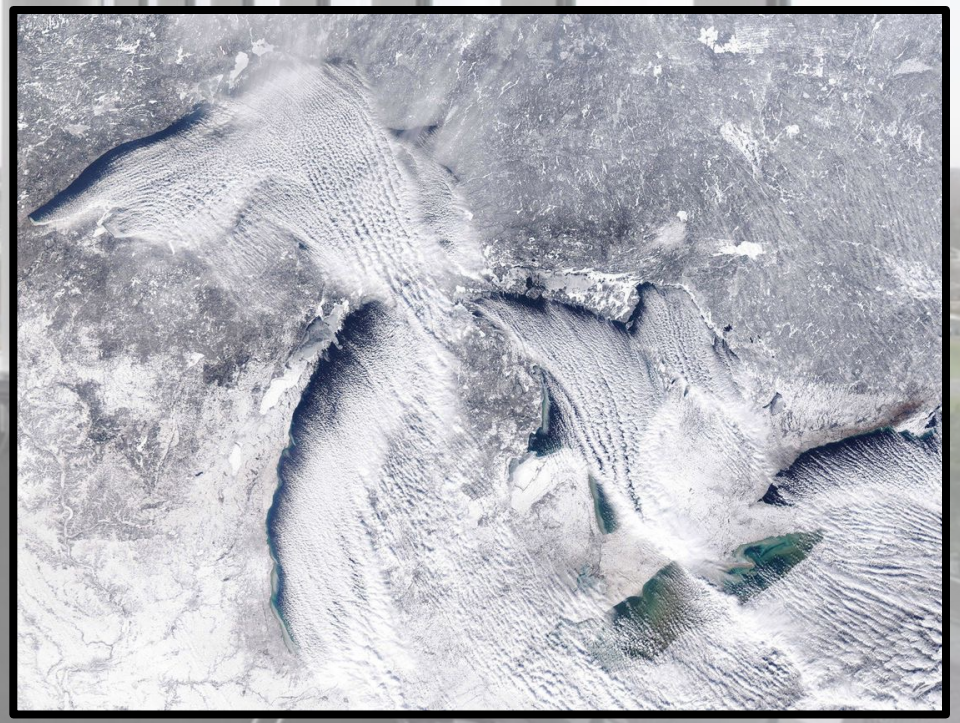
- **Students taught and advised by over 30 faculty members and research associates**

DAES

- **World-class teaching and research in:**
  - **Synoptic–dynamic, tropical, and mesoscale meteorology**





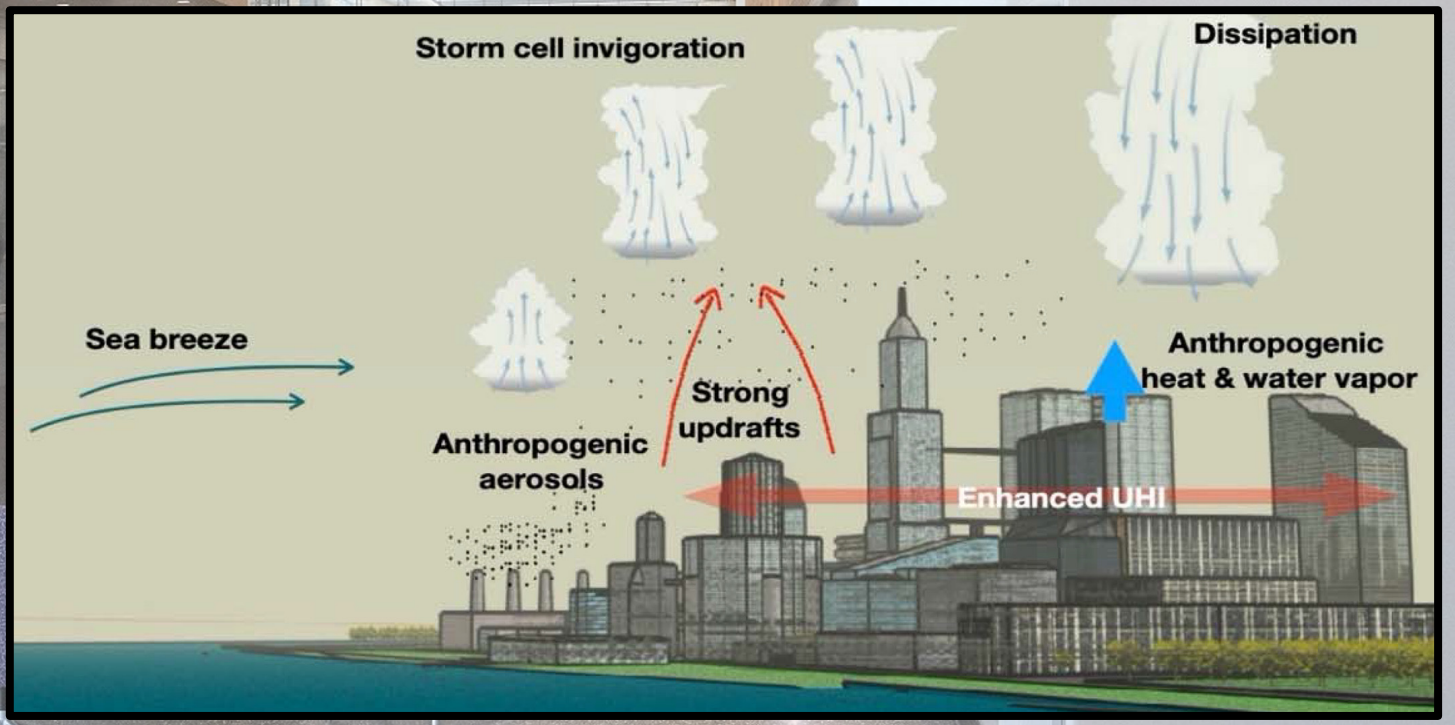


DAES

- **World-class teaching and research in:**
  - **Climate dynamics, paleoclimate, and environmental systems**

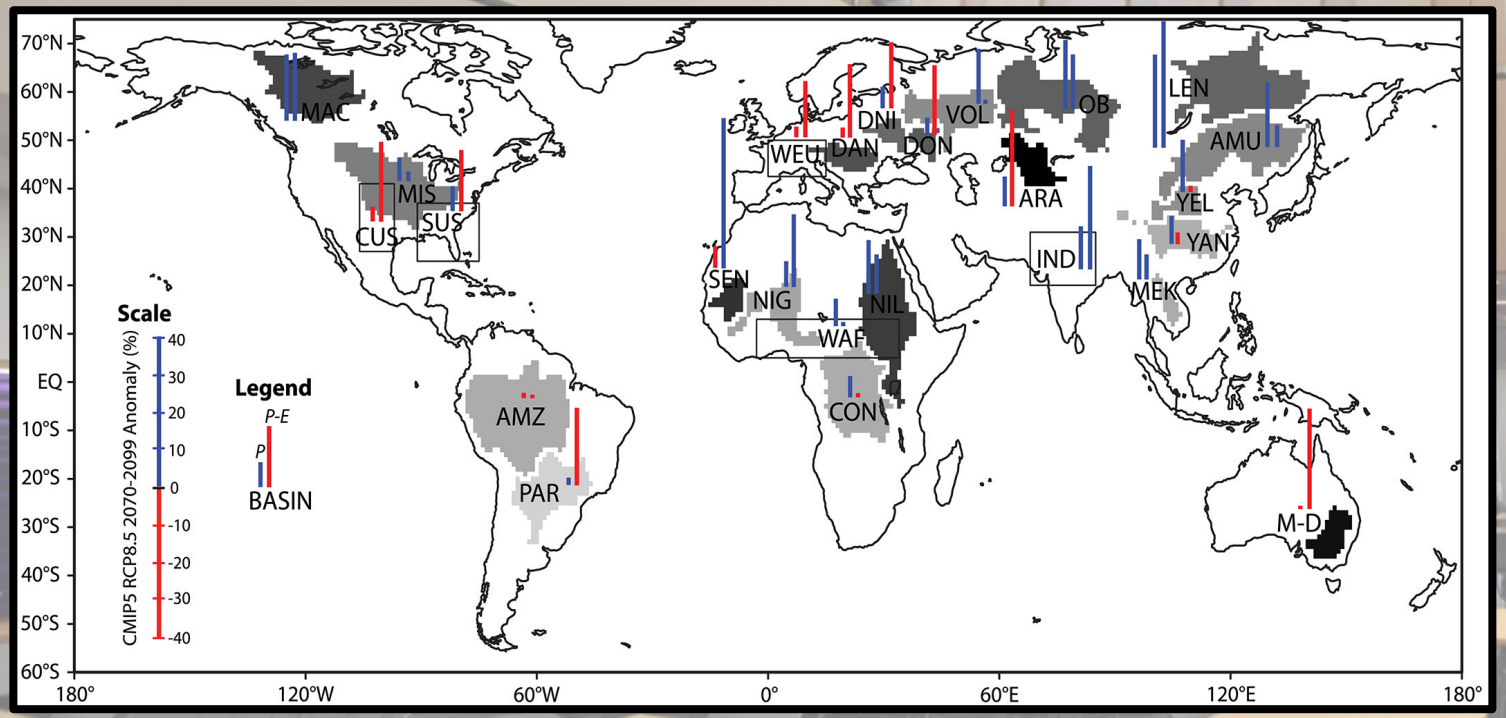
ASRC

- World-class teaching and research in:
  - Atmospheric chemistry, air quality, and coastal–urban environments



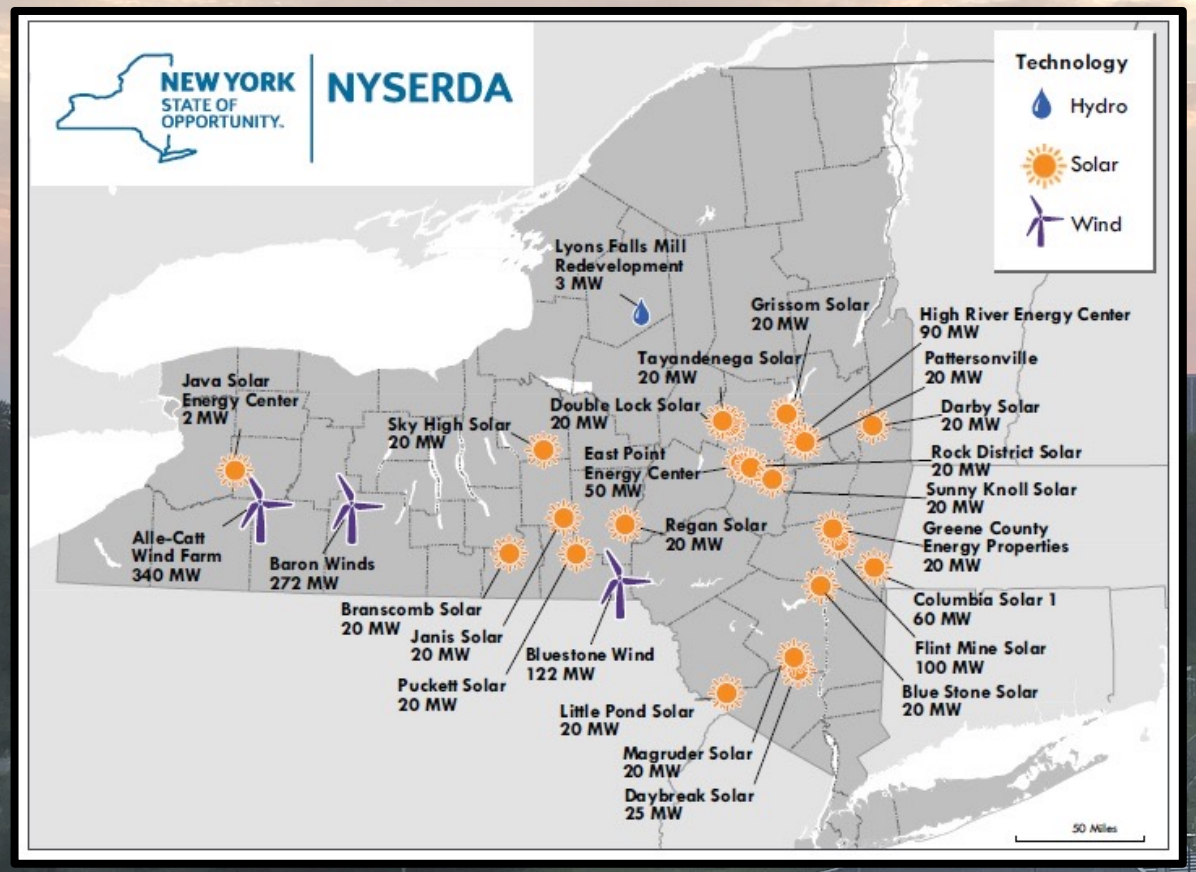
ASRC

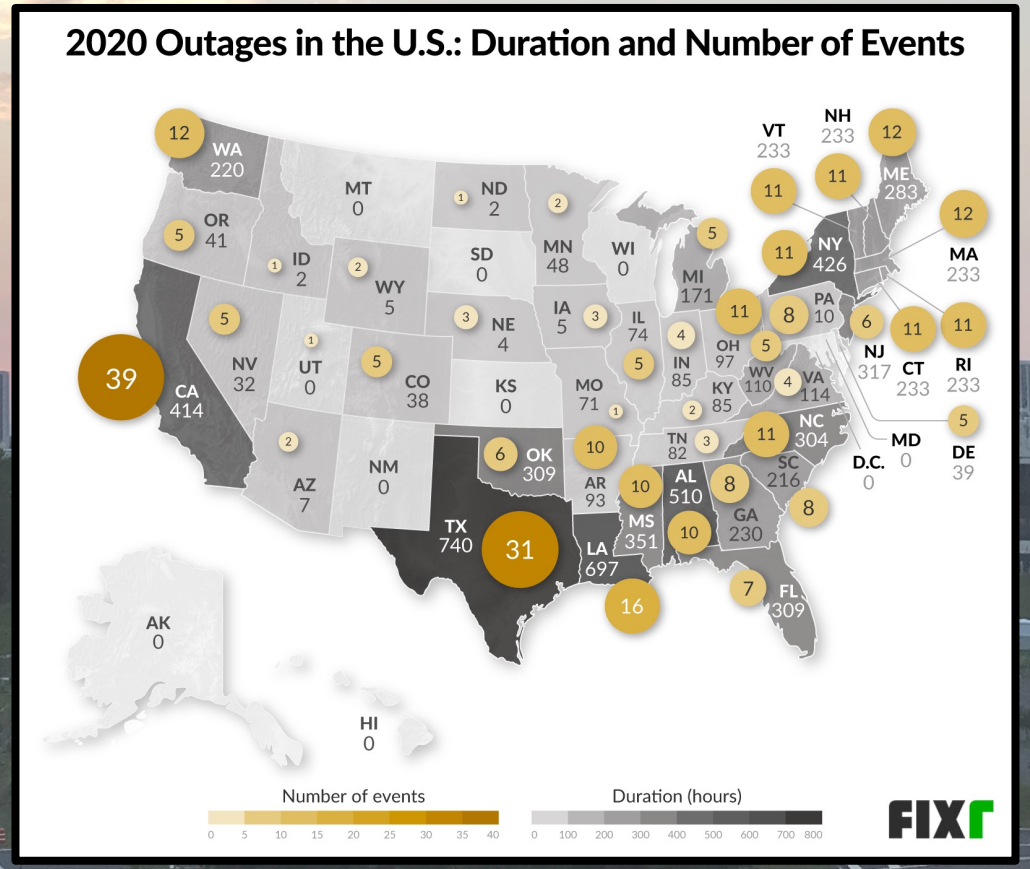
- **World-class teaching and research in:**
  - **Boundary layer meteorology and air–land–sea interactions**



ASRC

- **World-class teaching and research in:**
  - **Renewable energy**





Applied Master's requirements

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- **30 credits of 500+ level classes: 12-credit core, six-credit internship, and 12 credits of track-specific classes**

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- **Tracks are Business, Data Analytics, and Policy and Emergency Preparedness**

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- 30 credits of 500+ level classes: 12-credit core, six-credit internship, and 12 credits of track-specific classes
- Tracks are Business, Data Analytics, and Policy and Emergency Preparedness
- Many internships paid and arranged through the UAlbany Center of Excellence in Weather & Climate Analytics

Atmospheric Science requirements

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- **Two courses in Atmospheric Physics and Chemistry (ATM 504 and one of several electives)**

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- **Two courses in Atmospheric Dynamics (ATM 500 and one of several electives)**

- **Two additional classes with the ATM designation (most students end up taking more)**

Climate Science requirements

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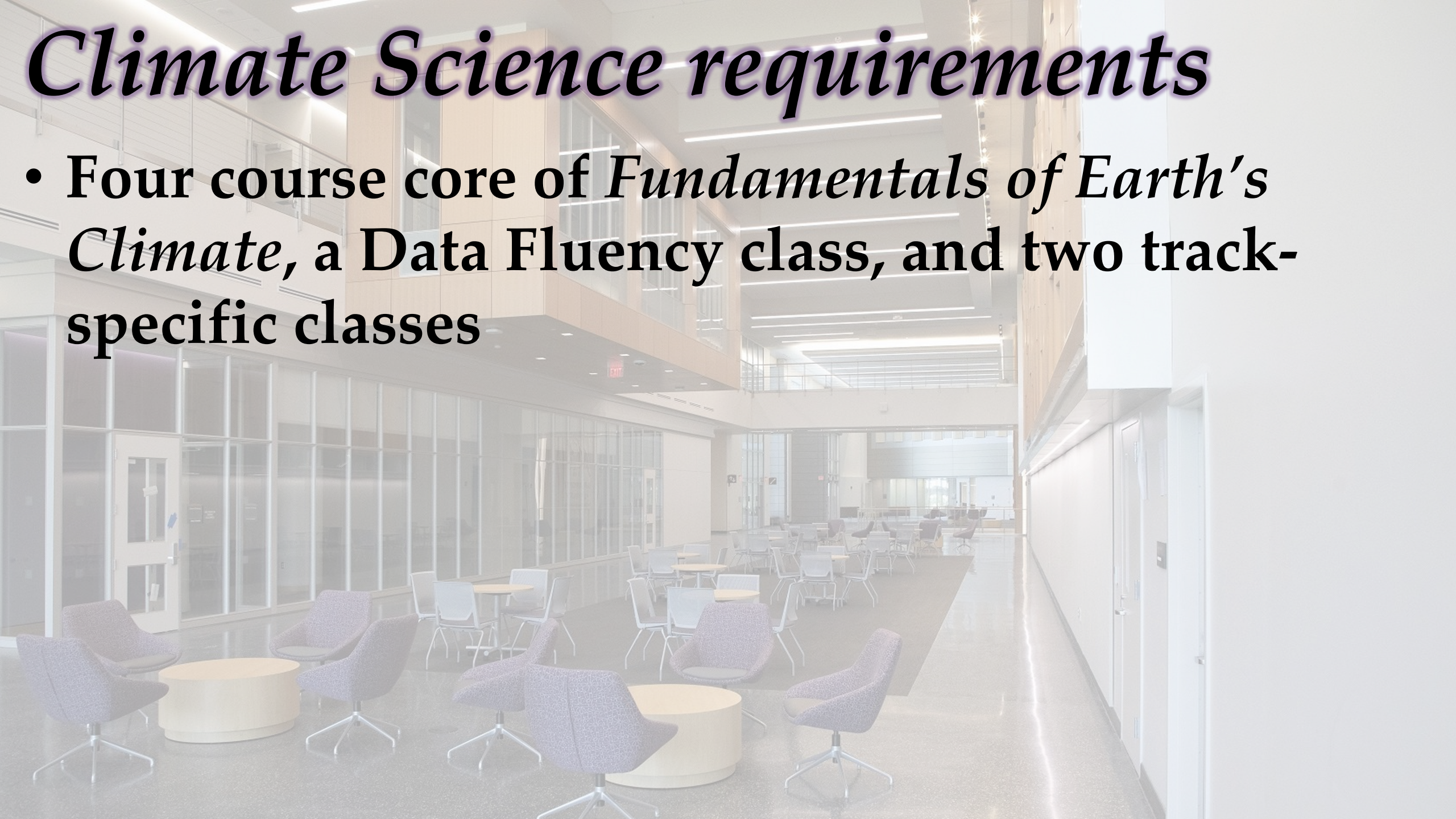
- **Four course core of *Fundamentals of Earth's Climate*, a Data Fluency class, and two track-specific classes**



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- **Tracks are Climate Dynamics, and Climate Physics & Chemistry**
- **Track specific classes in Atmospheric Dynamics, Physics, Paleoclimate, and Geochemistry**

Elective Courses

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  - **~ Two Atmospheric Dynamics electives**
  - **~ One or two Climate Dynamics electives**
  - **~ Two Physics & Chemistry electives**

- **In addition, we typically have one special topic course, offered once per graduate career**

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  - **~ Written PhD proposal (typically fourth year)**

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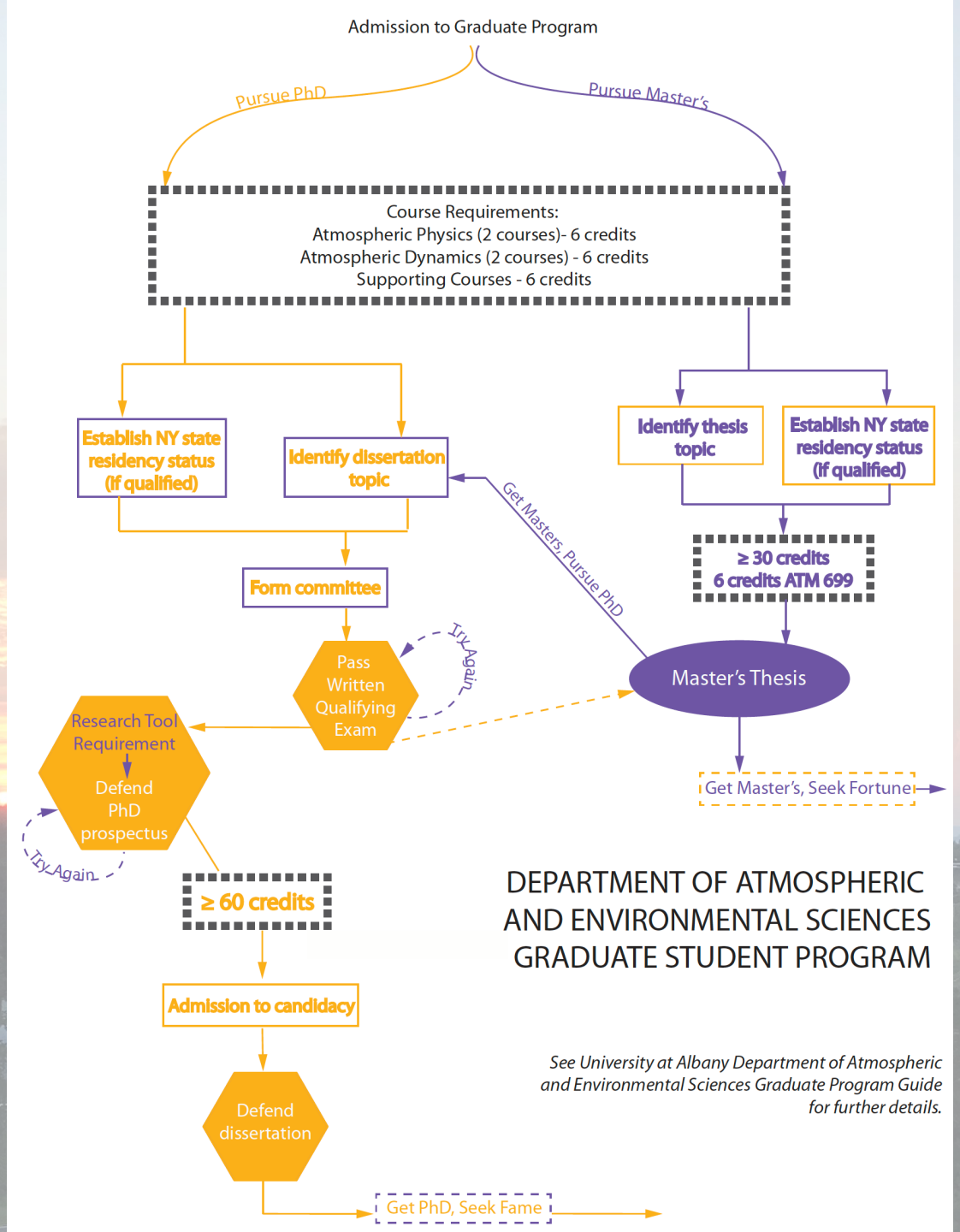
  - **~ Written PhD proposal (typically fourth year)**
  - **~ PhD thesis five to six years**



DEPARTMENT OF ATMOSPHERIC AND ENVIRONMENTAL SCIENCES GRADUATE STUDENT PROGRAM

See University at Albany Department of Atmospheric and Environmental Sciences Graduate Program Guide for further details.

Assistantships

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  - **~ Students paid by their advisor's grant**
  - **~ Responsible for carrying out research**

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  - **~ Students paid by their advisor's grant**
  - **~ Responsible for carrying out research**
- **Teaching assistant (TA)**
  - **~ Students paid by University during academic year, advisor's grant during summer**
  - **~ Assigned to assist an instructor in teaching a specific course**

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- **Students switch between RA and TA from year to year**

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  - ~ Weekly seminars
  - ~ Career development discussions

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  - ~ Career development discussions

- Informal seminars
  - ~ Climate Group
  - ~ ASRC Colloquy
  - ~ Research Groups

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  - **~ Graduate Student Organization**

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- **Synoptic & tropical map discussions with SWRCC, NWS Albany, CW3E, etc.**

- **Leadership and outreach**
  - **~ Graduate Program and Inclusion & Diversity Committees; Faculty meetings**
  - **~ Graduate Student Organization**
  - **~ Public schools, STEM programs, mentoring**

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  - **National Weather Service**
  - **NY State Mesonet**
  - **State Weather Risk Communication Center**

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  - State Weather Risk Communication Center
  - Center of Excellence in Weather & Climate Analytics
  - College of Emergency Preparedness, Homeland Security, and Cybersecurity

DAES / ASRC Prospective Student Liaisons

Jean Carlos Peña

David Marcial

- **Recommend contact points based on research interests**
- **Resource for department offerings, options, and specializations**
- **Down-to-earth take on grad student life**

contact: daesliaison@albany.edu